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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.		
10/535,530	05/18/2005	Shmaryu M Shvartsman	PHUS020449US 4305		
38107 75	107 7590 08/23/2006		EXAMINER		
PHILIPS INTELLECTUAL PROPERTY & STANDARDS 595 MINER ROAD CLEVELAND, OH 44143			ARANA. LOUIS M		
			ART UNIT	PAPER NUMBER	
, , , , , , , , , , , , , , , , , , ,			2859		
			DATE MAILED: 08/23/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)			
Office Action Summary							
		10/535,530		SHVARTSMAN ET AL.			
		Examiner		Art Unit			
·	The MAIL ING DATE of this communication ann	Louis M. Ara		2859			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in many be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS 36(a). In no event will apply and will e. cause the applic	S COMMUNICATION t, however, may a reply be time expire SIX (6) MONTHS from the ation to become ABANDONE	N. nely filed the mailing date of this communication. D. (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) filed on 18 May 2005.						
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
5)□ 6)⊠ 7)□ 8)□	Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-28 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or ion Papers	wn from cons					
9)[The specification is objected to by the Examine	er.					
10)⊠	The drawing(s) filed on 18 May 2005 is/are: a)	accepted	or b) ☐ objected to b	by the Examiner.			
	Applicant may not request that any objection to the	drawing(s) be	held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
	et(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	•	4) Interview Summary				
3) 🛛 Infon	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date <u>5/05</u> .		Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)			

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DETAILED ACTION

This communication is responsive to your preliminary amendment filed May 18,
 Claims 1-28 are currently pending in this application.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Schenck P.N. 5,561,371.

Schenck discloses a gradient coil for a Magnetic Resonance Imaging apparatus.

Applicant's attention is directed to Fig. 5-8 and their corresponding description. The

gradient coil includes:

a primary coil 51 defining an inner cylindrical surface 63,

a shield coil 53 defining an outer cylindrical surface 63 coaxially aligned with the inner cylindrical surface 61 and having a larger cylindrical radius (a2>a1) than the inner cylindrical surface; and a plurality of coil jumps 55 electrically connecting the primary and shield coils, the coil jumps 53 defining a non-planar current-sharing surface 65 extending between an inner contour coinciding with the inner cylindrical surface 61 and an outer contour coinciding with the outer cylindrical surface 63, the primary coil,

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shield coil, and coil jumps cooperatively defining a current path that passes across the current-sharing surface 65 between the inner and outer contours, a plurality of times. Note further, that the current sharing surface is conical, that the lengths of the cylindrical surfaces are different. Also as described in col. 7, the mathematical treatment allows for optimization of parameters such as gradient coil linearity, uniformity and stored energy by the selection of the conductor paths.

- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kimmlingen et al., Petropoulos et al. and Pausch et al. all disclose shielded gradient coils for MR imagers. Note the coil jumps and edge characteristics for the gradient coils in each of these documents.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Louis M. Arana whose telephone number is (571) 272-2236. The examiner can normally be reached on M-Thurs. Fridays Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego F. Gutierrez can be reached on (571) 272-2245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or/571-272-1000.

> **Primary Examiner** Art Unit 2859

lma 8/11/06